Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Integrated Geometry Midterm *REVIEW***

**PART 1: VOCABULARY.**  (Matching) Be able to define/describe the following words

|  |  |  |
| --- | --- | --- |
| Complementary Angles  Segment  Vertical Angles  Adjacent Angles  Midpoint | Angle Bisector  Angle  Obtuse angle  Acute angle  Straight angle  Right angle | Ray  Collinear  Line  Coplanar  Initial Point  Intersection |

**PART 2: PICTURE MATCH.**  (Matching) Identify the term the picture represents.

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| http://www.ck12.org/flx/render/perma/resource/default/image/user%3Ack12editor/2d3f1805ccdc9701f2f1d487967f87be.png | http://www.mathworksheetsgo.com/sheets/algebra/linear-equation/slope/images/picture-of-linear-equation-graph.png |  |
|  |  |  |

**Part 3: TRUE OR FALSE.** Use the picture at right to decide whether the statement is *true* or *false*.

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| --- | --- | --- | --- | --- | --- |
| and  are vertical angles. |  | |  |  |  |
| A angle is complementary to angle. | | |  |  |  |
| A segment has three endpoints. | | |  |  |  |
| An obtuse angle measures between  and | | |  |  |  |
| and  are supplementary angles. | |  |  |  |  |

**Part 4: MULTIPLE CHOICE.**

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| Estimate | | | | | | |
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| Simplify: 1.3 – (15 + 5)2 | | | | | | |
| A company rents trucks for $27 per day. Last weekend, 122 trucks were rented from the company for ***2 days each***. Which is the closest estimate of the total amount of money the company earned from the 122 rentals? | | | | | | |
|
| Simplify: –|–5| + (–x)2 | | | | | | |
|  |  |  |  |  |  |  |
| Evaluate: 40 + 28 ÷ 4 – (–33) | | | | | | |
|  |  |  |  |  |  |  |
| What is the greatest common factor (GCF) of these monomials: | | | | | | |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Simplify the expression: (-5x3)(3x4) | | | | | | |
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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | The length of a rectangle is 7.8 ft. The area of the rectangle is 48 ft2. Which is the closest approximation to the width of the rectangle? The formula for the area of a rectangle is : | | | | | | |
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|  |  |  |  |  |  |  |  |
|  | A computer screen shows two points at the coordinates: P1 (1,7) and P2 (6,4). What are the **coordinates of the midpoint** between the two points? | | | | | | |
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|  | What is the **distance** between the two points from above? Round to the nearest tenth. | | | | | | |
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|  | Write the equation of the line passing thru **(-6, 1)** with a **slope of -3**. | | | | | | |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | Write the equation of the line passing thru the points **(-4, -3)** and **(8, -3)**. | | | | | | |
|  |  |  |  |  |  |  |  |

**Part 5: OPEN-ENDED.** Answer each of the questions and place your answer in the space provided.

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| a) Solve for y.  b) Find LM  c) Find MN  **LN = 183 units** | | | |  | |  | | --- | | = \_\_\_\_\_\_ | | = \_\_\_\_\_\_ | | = \_\_\_\_\_\_ | |
| y = \_\_\_\_\_\_\_\_ | LM = \_\_\_\_\_\_\_\_ | | MN = \_\_\_\_\_\_\_\_ |  | |
|  | | | |  | |
| 50.  bisects ∠ABD.  Find x and m∠ABD. | | | | CartesianCoordinatePlane. Graph the following equation on the coordinate plane. | |
| x = \_\_\_\_\_\_\_\_ | | m∠ABD = \_\_\_\_\_\_\_\_ | |  | |